

RESULT 2
 US-03-537-357-15
 Sequence 15, Application US/09537357
 Patent No. 6271018
 General Information:
 APPLICANT: Alan Brahm
 APPLICANT: Nathalie Tiet
 TITLE OF INVENTION: MUSKOLON (CUCUMIS MELO) HYDROPEROXIDE
 TITLE OF INVENTION: LIASE AND USES THEREOF
 FILE REFERENCE: 06027...002
 CURRENT APPLICATION NUMBER: US/091537, 357
 CURRENT FILING DATE: 2000-03-29
 NUMBER OF SEQ ID NOS: 56
 SOFTWARE: FASTSEQ for Windows Version 4.0
 SEQ ID NO: 15
 LENGTH: 487
 TYPE: PRT
 ORGANISM: Cucumis melo
 NAME/KEY: VARIANT
 LOCATION: (1..(487))
 OTHER INFORMATION: Xaa = Any Amino Acid
 NAME/KEY: nuc_c_feature
 OCCIDION: (0)..(10)
 OTHER INFORMATION: Accession No. 6271018 AF081955

Query Match Similarity 99.0%; Score 2463.5; DB 3; Length 487;
 Best Local Similarity 99.2%; Pred. No. 2..26..243; 1; Mismatches 1; Indels 1; Gaps 1;
 Matches 478; Conservative 1;

Qy 1 MATPSSSPSLPKPEPGYRPLPIKDPYFQGRDFE-RRTIKNSTVNR 59
 Db 1 MATPSSSPSLPKPEPGYRPLPIKDPYFQGRDFE-RRTIKNSTVNR 60

Qy 60 MPRGPFISSRSVWVLASLSPPLDKTKEKENIDTYMPSPSGNTCTAQLPS 119
 Db 61 MPRGPFISSRSVWVLASLSPPLDKTKEKENIDTYMPSPSGNTCTAQLPS 120

Qy 120 ETERHSVLRFLSPPLASHDRFLPLRSSLSMPPVLCRDKSEKKAIDNSISSPD 179
 Db 121 ETERHSVLRFLSPPLASHDRFLPLRSSLSMPPVLCRDKSEKKAIDNSISSPD 180

Qy 180 YFRLILSUGPDKAAGCPMEEDMIVQALAPASLGKPKPSFEDWIMTLPKPP 239
 Db 181 YFRLILSUGPDKAAGCPMEEDMIVQALAPASLGKPKPSFEDWIMTLPKPP 240

Qy 240 VSGRKVLEAFSSSGFLDEAEKGOKREKAENVLAQPRNGMKTIPILKAW 299
 Db 241 VSGRKVLEAFSSSGFLDEAEKGOKREKAENVLAQPRNGMKTIPILKAW 300

Qy 300 GTAGGDLIRKLAKERVTTWKGGLUTSALEMKLLSVVYALTRIPPFQYKAME 359
 Db 301 GTAGGDLIRKLAKERVTTWKGGLUTSALEMKLLSVVYALTRIPPFQYKAME 360

Qy 360 IVTQSHDSPIKKGETTGFQOPATDKPKOSEKPKWDYFQEGEGERKLKVYNE 419
 Db 361 IVTQSHDSPIKKGETTGFQOPATDKPKOSEKPKWDYFQEGEGERKLKVYNE 420

Qy 420 RETVERPENKPGQVWLGIGMMVPERPDTTYVEADLPLPANEKSISTRAD 479
 Db 421 RETVERPENKPGQVWLGIGMMVPERPDTTYVEADLPLPANEKSISTRAD 480

RESULT 3
 US-08-833-553-2
 Sequence 2, Application US/0883353C
 Patent No. 6018034
 General Information:
 APPLICANT: Haasler, Alex
 APPLICANT: Larch, Konrad
 APPLICANT: Muhein, Andreas
 APPLICANT: Sliko, Natasha
 TITLE OF INVENTION: HYDROPEROXIDE LYASES
 FILE REFERENCE: Hydroperoxidases
 CURRENT APPLICATION NUMBER: US/081833, 553C
 CURRENT FILING DATE: 1997-04-07
 NUMBER OF SEQ ID NOS: 11
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 2
 LENGTH: 433
 TYPE: PRT
 ORGANISM: Musa sp.
 SEQ-08-833-553-2:
 Query Match Similarity 38.8%; Score 965.5; DB 3; Length 483;
 Best Local Similarity 42.9%; Pred. No. 6.1..90; Mismatches 180; Indels 17; Gaps 10;
 Matches 204; Conservative 75; Mismatches 180; Indels 17; Gaps 10;
 Qy 11 LPKPKRPGYRPLPIKDPYFQGRDFE-RRTIKNSTVNR 68
 Db 16 LPKPKRPGYRPLPIKDPYFQGRDFE-RRTIKNSTVNR 75
 Qy 69 DSWWVWLDLSPPLDKTKEKENIDTYMPSPSGNTCTAQLPS 128
 Db 76 DPKPVWVJDTCSAFLDVEVKQHLDGMWSLSFTDODVWVYDSDBHDARYS 135
 Qy 129 LPSPSPASRHKRIPFPPSSSENPYKEDKUSKCKLADPPSISDSDNPDYFLL--S 186
 Db 136 FCHLIRGAKTWWFSPNUDVMTQGIAKDGAGFPLQCL--AFVCS11GA 194
 Qy 187 DGPSPSKAARGPDMWLUQPLASIGLPLKFVSFEDWIMTLPKPPSGTRK 246
 Db 195 DPKPVWVJDTCSAFLDVEVKQHLDGMWSLSFTDODVWVYDSDBHDARYX 252
 Qy 247 LYKRYVSSSPDDE KQDIDKACHNULPLAGANGKMLKFLTUKVNGKACED 305
 Db 253 LYKRYVKGKGVVRBETEGLSKDNINLFLVNGAFCGSPSPPTLITI GRDKTG 312
 Qy 306 LHKKLAKERVTTWKGGL--TESALEKOSLJKSVVTAIRTEPVPKGKAKEDIVQ 363
 Db 313 LTKKAKDVKVVKSGKGEKRSFETREMKLTSVTEVIRLNPPVQYGRADFTLN 372
 Qy 364 SHDSPIKKGETTGFQOPATDKPKOSEKPKWDYFQEGEGERKLKVYNE 423
 Db 373 SHPKRKKGKKGKEDCCYQDWWPDPDPTPAPERING--SGELJKVYFASNGPERG 431
 Qy 424 EPRAENKPGQVWLGIGMMVPERPDTTYVEADLPLPANEKSISTRAD 479
 Db 432 TPPIANKOCOMKQVVTACLMALIFIRDFV--CAD---DAISVTKLDRARE 481

RESULT 4
 US-09-410-222-2
 Sequence 2, Application US/09418222
 Patent No. 6236898
 General Information:
 APPLICANT: Haasler, Alex
 APPLICANT: Larch, Konrad
 APPLICANT: Muhein, Andreas
 APPLICANT: Sliko, Natasha
 TITLE OF INVENTION: HYDROPEROXIDE LYASES

QY 118 PSFTESHVAKLIFPLASRHDRETFIPLPSSSSEMPVKEPLKEDLSKCKTADPNISMS 177
 Db 129 TSPGQIAQVKVONPAMDLIKKSKKSVWESVTNDMWTMIISSLAK---DGA---SVI 180
 QY 178 P---DVRFLS----DGTPSDKLAAGPGRPMUWQQLAPASLGPLKFSPFEDL 228
 Db 181 PFOKEFLPKFSKIGAIDPAASPOVAKSGKWMRDLALQULPTING---WQPLVSI 237
 QY 229 VHTTPUPPFPPVSGKRAKPSGSFPLBARKO-GDREKACHVLVLAGPAYGG 287
 Db 238 FLSHSAVYPPALVSGDQNKYPTKRGRAVERAKAEGPGLTQHBLULPTGFNAGG 297
 QY 288 MKYLPFLKUKWVPGEDLHKKLAEVRTIVKEBG--LTFSLAKLSKSYWYALRI 345
 Db 298 FSFLPFLNLNSLSDTQGLDQRKVEKRA---KGPAULSPASVKEMLVSYWETRL 353
 QY 346 BPPVPGOKKAKDVIQOSHSSPKKRTGKOPATKPKPCKPKSCFKVGFGB 405
 Db 354 NPPVPPQARAKDPOKSHSVDFVKRKEGLGKVQVMTDPKVDPEFSNSDRV-- 411
 QY 406 EGKLUKVVWSNEREVTPAENKOPCKNWLWGRIMWVPERFLDFT 457
 Db 412 QNSBLDLYWNSNGPQGTPESNKOANDVUTLACLVAYMPRINTV 463
 RESULT 12
 Sequence 2, Application US/10042991
 Patent No. 6706211
 GENERAL INFORMATION:
 APPLICANT: Ian M. Whitehead
 APPLICANT: Alan Slusarenko
 APPLICANT: Duncan Gaukins
 APPLICANT: Alan Brash
 APPLICANT: Nathalie Tillet
 TITLE OF INVENTION: GUAVA (PSIDIUM GUAJAVA) 13-HYDROPEROXIDE
 FILE REFERENCE: 66027.00013
 CURRENT APPLICATION NUMBER: US/10/042,991
 CURRENT FILING DATE: 2002-01-09
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 2
 LENGTH: 476
 TYPE: PRT
 ORGANISM: Psidium Guajava (guava)
 US-09-078-173A-3
 Query Match Best Local Similarity 36.2%; Score 901; DB 4; Length 476;
 Matches 198; Conservative 79; Mismatches 163; Indels 32; Gaps 12;
 QY 1 MATPSSSS-BLKAKRQGKGPCKPCKPKVXPKYFQDRPRRIRKNTFPRAN 59
 Db 9 LSPSPSPRPTTUPRTRPESYEWPLPISDUDLFWPQEPERPKIEKSYTFRAN 72
 QY 60 MPP-GPSSS-DSVWNUDASLSPITPAKVERKILQDGTVNLSPFTNTCAYAD 117
 Db 73 VPCPSPRSNPWVWVWDCESPAHFPMVBMVTSVNGDPMVSEKTYTNRVAD 132
 US-10-02-991-2
 Query Match Best Local Similarity 41.9%; Score 901; DB 3; Length 476;
 Matches 198; Conservative 79; Mismatches 163; Indels 32; Gaps 12;
 QY 133 TSPGQIAQVKVONPAMDLIKKSKKSVWESVTNDMWTMIISSLAK---DGA---SVI 184
 Db 178 P---DVRFLS----DGTPSDKLAAGPGRPMUWQQLAPASLGPLKFSPFEDL 228
 Db 185 PFOKEFLPKFSKIGAIDPAASPOVAKSGKWMRDLALQULPTING---WQPLVSI 241
 QY 229 VHTTPUPPFPPVSGKRAKPSGSFPLBARKO-GDREKACHVLVLAGPAYGG 287
 Db 238 FLSHSAVYPPALVSGDQNKYPTKRGRAVERAKAEGPGLTQHBLULPTGFNAGG 297
 QY 346 BPPVPGOKKAKDVIQOSHSSPKKRTGKOPATKPKPCKPKSCFKVGFGB 405
 Db 358 NPPVPPQARAKDPOKSHSVDFVKRKEGLGKVQVMTDPKVDPEFSNSDRV-- 411
 QY 406 EGKLUKVVWSNEREVTPAENKOPCKNWLWGRIMWVPERFLDFT 457
 Db 416 QNSBLDLYWNSNGPQGTPESNKOANDVUTLACLVAYMPRINTV 463

QY 288 MKYLPFLKUKWVPGEDLHKKLAEVRTIVKEBG--LTFSLAKLSKSYWYALRI 345
 Db 298 FSFLPFLNLNSLSDTQGLDQRKVEKRA---KGPAULSPASVKEMLVSYWETRL 353
 QY 346 BPPVPGOKKAKDVIQOSHSSPKKRTGKOPATKPKPCKPKSCFKVGFGB 405
 Db 354 NPPVPPQARAKDPOKSHSVDFVKRKEGLGKVQVMTDPKVDPEFSNSDRV-- 411
 QY 406 EGKLUKVVWSNEREVTPAENKOPCKNWLWGRIMWVPERFLDFT 457
 Db 412 QNSBLDLYWNSNGPQGTPESNKOANDVUTLACLVAYMPRINTV 463

RESULT 13
 Sequence 3, Application US/09/078173A
 Patent No. 6201794
 GENERAL INFORMATION:
 APPLICANT: Ian M. Whitehead
 APPLICANT: Alan Slusarenko
 APPLICANT: Duncan Gaukins
 APPLICANT: Alan Brash
 TITLE OF INVENTION: GUAVA (PSIDIUM GUAJAVA) 13-HYDROPEROXIDE
 FILE REFERENCE: 66027.0001
 CURRENT APPLICATION NUMBER: US/10/042,991
 CURRENT FILING DATE: 1998-05-13
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: FastSEQ for Windows Version 3.0
 LENGTH: 480
 TYPE: PRT
 ORGANISM: Psidium Guajava (guava)
 US-09-078-173A-3
 Query Match Best Local Similarity 36.3%; Score 901; DB 3; Length 480;
 Matches 198; Conservative 79; Mismatches 163; Indels 32; Gaps 12;
 QY 1 NVPSSSS-BLKAKRQGKGPCKPCKPKVXPKYFQDRPRRIRKNTFPRAN 59
 Db 13 LSPSPSPRPTTUPRTRPESYEWPLPISDUDLFWPQEPERPKIEKSYTFRAN 72
 QY 60 MPP-GPSSS-DSVWNUDASLSPITPAKVERKILQDGTVNLSPFTNTCAYAD 117
 Db 73 VPCPSPRSNPWVWVWDCESPAHFPMVBMVTSVNGDPMVSEKTYTNRVAD 132
 Db 118 PSFTESHVAKLIFPLASRHDRETFIPLPSSSSEMPVKEPLKEDLSKCKTADPNISMS 177
 Db 133 TSPGQIAQVKVONPAMDLIKKSKKSVWESVTNDMWTMIISSLAK---DGA---SVI 184
 QY 178 P---DVRFLS----DGTPSDKLAAGPGRPMUWQQLAPASLGPLKFSPFEDL 228
 Db 185 PFOKEFLPKFSKIGAIDPAASPOVAKSGKWMRDLALQULPTING---WQPLVSI 241
 QY 229 VHTTPUPPFPPVSGKRAKPSGSFPLBARKO-GDREKACHVLVLAGPAYGG 287
 Db 242 FLSHSAVYPPALVSGDQNKYPTKRGRAVERAKAEGPGLTQHBLULPTGFNAGG 301
 QY 288 MKYLPFLKUKWVPGEDLHKKLAEVRTIVKEBG--LTFSLAKLSKSYWYALRI 345
 Db 298 FSFLPFLNLNSLSDTQGLDQRKVEKRA---KGPAULSPASVKEMLVSYWETRL 353
 QY 346 BPPVPGOKKAKDVIQOSHSSPKKRTGKOPATKPKPCKPKSCFKVGFGB 405
 Db 358 NPPVPPQARAKDPOKSHSVDFVKRKEGLGKVQVMTDPKVDPEFSNSDRV-- 411
 QY 406 EGKLUKVVWSNEREVTPAENKOPCKNWLWGRIMWVPERFLDFT 457
 Db 416 QNSBLDLYWNSNGPQGTPESNKOANDVUTLACLVAYMPRINTV 463

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US-0-042-991-3
 Sequence 3, Application US/10042991.
 Patent No. 6786621
 GENERAL INFORMATION:
 APPLICANT: Ian M. Whitehead
 APPLICANT: Alan Slusarenko
 APPLICANT: Duncan Gaskin
 APPLICANT: Ann Brat
 APPLICANT: Natalie Tijer
 TITLE OF INVENTION: GUAVA (PSIDIUM GUAJAVA) 13-HYDROPEROXIDE
 CURRENT FILING DATE: 1998-05-13
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO: 4
 LENGTH: 483
 TYPE: PRT
 ORGANISM: Psidium Guajava (guava)
 US-09-078-173A-4
 Query Match Similarity: 36.2%; Score: 901; Pred No.: 41; Pred Locality: Similarity: 36.2%; Score: 901; Pred No.: 41; Pred Locality:

US 0044-991-3
Sequence 3, Application US/10042991
Patent No. 7,678,621
GENERAL INFORMATION
APPLICANT: Ian M. Whithead
APPLICANT: Alan Susharenko
APPLICANT: Duncan Gaskin
APPLICANT: Alain Brann
TITLE OF INVENTION: GUAVA (PSIDIUM GUAJAVA) 13-HYDROPEROXIDE
TITLE OF INVENTION: LYASE AND USES THEREOF
FILED REFERENCE: 06/027,000/03
CURRENT APPLICATION NUMBER: US/01042,991
CURRENT FILING DATE: 2002-01-09
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FASTBD FOR WINDOWS Version 3.0
SEQ ID NO: 3
LENGTH: 480
TYPE: PRT
ORGANISM: Psidium Guajava (guava)
US-10-042-991-3

Query Match: 36.2%; Score 901; DB 1; Length 480;

Sequence 2, Application US/09078173A
; Patent No. 6,600,759
; GENERAL INFORMATION:
; APPLICANT: Ian M. Whitehead
; APPLICANT: Alan Slusarenko
; APPLICANT: Duncan Gaskins
; APPLICANT: Alan Brash
; APPLICANT: Nathalie Tijet
TITLE-OF-INVENTION—COPOLY(EPIMIN-GUMAW)-13-HYDROPEROXIDE
TITLE OF INVENTION: COPOLY(EPIMIN-GUMAW)-13-HYDROPEROXIDE

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Om protein - protein search, using BW model

Run on: October 5, 2005, 07:00:33 ; Search time 169 Seconds

Title: US-09-884-260A-7

Perfect score: 2488

Sequence: 1 MATPSSSPSLPKPLPGKPLPPLRPIKDRDYPYQFQRDAPPSRISRLTKNTVFRAM 60

Scoring table: BL2USM62

GapOp 10.0 , GapExt 0.5

Searched: 1846076 seqs, 41516000 residues

Total number of hits satisfying chosen parameters: 1846076

Minimum DB seq length: 0

Maximum DB seq length: 20000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

1: /cpn2_6_products/1/pupbaa/us07_pubcomb.pep*
 2: /cpn2_6_products/1/pupbaa/us07_pubcomb.pep*
 3: /cpn2_6_products/1/pupbaa/us07_pubcomb.pep*
 4: /cpn2_6_products/1/pupbaa/us07_pubcomb.pep*
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 22: /cpn2_6_products/1/pupbaa/us60_new_pub.pep*
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Match Length DB ID Description

1 2488 100.0 481 9 US-09-884-260A-7 Sequence, 7, April 1

2 2483 99.8 481 15 US-10-44-991-9 Sequence, 9, April 1

3 2461.5 99.0 487 15 US-09-884-260A-15 Sequence, 15, April 1

4 2239 94.0 478 15 US-10-44-991-10 Sequence, 10, April 1

5 1613.5 64.9 483 16 US-10-665-941-16 Sequence, 156, April 1

6 1560 62.7 487 15 US-10-44-991-6 Sequence, 6, April 1

7 1560 62.7 522 15 US-10-44-991-20358 Sequence, 20458, April 1

8 1546.5 62.2 492 15 US-10-425-111-40766 Sequence, 40766, April 1

9 1545.5 62.2 492 15 US-10-425-111-69926 Sequence, 4, April 1

10 1545.5 62.1 478 15 US-10-424-599-159690 Sequence, 159690, April 1

RESULT 1
US-09-884-260A-7
Sequence 7, Application US/09884260A
Patent No. US20000985701

GENERAL INFORMATION

APPLICANT: Alan Brash

APPLICANT: Nathalie Rijet

TITLE OF INVENTION: MUSCLEBOLON (CUCUMIS MELO) HYDROPEROXIDE

TITLE OF INVENTION: LIPID AND UGGS THEREOF

FILE REFERENCE: 06022.00012

CURRENT APPLICATION NUMBER: US/09-884-260A

CURRENT FILING DATE: 2001-06-19

PRIOR APPLICATION NUMBER: 09/537,357

PRIOR FILING DATE: 2000-03-29

NUMBER OF SEQ ID NOs: 56

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO: 7

LENGTH: 481

TYPE: PRT

ORGANISM: Cucumis melo

US-09-884-260A-7

Query Match Similarity 100.0%; Score 2488; DB 9; Length 481;

Best Local Similarity 100.0%; Pred. No. 1, i.e.-233; Mismatches 0; Indels 0; Gaps 0;

Matches 481; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MATPSSSPSLPKPLPGKPLPPLRPIKDRDYPYQFQRDAPPSRISRLTKNTVFRAM 60

Dy 1 MATPSSSPSLPKPLPGKPLPPLRPIKDRDYPYQFQRDAPPSRISRLTKNTVFRAM 60

Oy 61 PROPPSSSDVVMDLSPPLPMLAKVRRVNLGDTMPSLFTPTTRTAYDSE 120

11 1545.5 62.1 478 15 US-10-424-599-159690 Sequence, 159690, April 1

Wed Oct 5 16:02:44 2005

RESULT 4
 US-10-434-991-10 Application US/10434991
 Sequence 10, Application US/10434991
 Publication No. US20040010822A1
 GENERAL INFORMATION:
 APPLICANT: McCollig, Brian
 TITLE OF INVENTION: HYDROPEROXIDE LYASES
 FILE REFERENCE: BBS34USA
 CURRENT APPLICATION NUMBER: US/10/434,991.
 CURRENT FILING DATE: 2003-05-09
 NUMBER OF SEQ ID NOS: 14
 SOFTWARE: Microsoft Word Version 7.0A
 SEQ ID NO 10
 LENGTH: 478
 TYPE: PRT
 ORGANISM: Cucumis sativus
 US-10-434-991-10
 Query Match 94.0%; Score 2339; DB 15; Length 478;
 Best Local Similarity 91.9%; Pred. No. 3 98.21%; Mismatches 11; Indels 0; Gaps 0;
 Matches 449; Conservative 14; Mismatches 11; Indels 0; Gaps 0;
 Query 5 SSSSPALPAKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 64
 File Reference: BBS34USA
 Database: 2 ASSPPLPKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 61
 Query 65 PSSSDPVVLLAUSPFLDPTAKENLQDGTTMPSLSFTGNTIRTCAGDSETEHS 124
 Software: Microsoft Word Version 7.0A
 Seq ID No 10
 Length: 478
 Type: PRT
 Organism: Cucumis sativus
 US-10-434-991-10
 Query Match 94.0%; Score 2339; DB 15; Length 478;
 Best Local Similarity 91.9%; Pred. No. 3 98.21%; Mismatches 11; Indels 0; Gaps 0;
 Matches 449; Conservative 14; Mismatches 11; Indels 0; Gaps 0;
 Query 66 PSSSDPVVLLAUSPFLDPTAKENLQDGTTMPSLSFTGNTIRTCAGDSETEHS 124
 File Reference: BBS34USA
 Database: 2 ASSPPLPKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 61
 Query 69 PTAKPKVVKVLUWCKTVPVDFSKRCKNNDGTVFPTPFGCIPKPCIPKADPESTHA 128
 Software: Microsoft Word Version 7.0A
 Seq ID No 10
 Length: 478
 Type: PRT
 Organism: Cucumis sativus
 US-10-434-991-10
 Query Match 94.0%; Score 2339; DB 15; Length 478;
 Best Local Similarity 91.9%; Pred. No. 3 98.21%; Mismatches 11; Indels 0; Gaps 0;
 Matches 449; Conservative 14; Mismatches 11; Indels 0; Gaps 0;
 Query 70 VAKRLUPSLISLQHNPQLPLKTSISGLPANELENS 167
 File Reference: BBS34USA
 Database: 2 ASSPPLPKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 61
 Query 75 LSGCPF--DSKLAAGPENPDMLVOLAPASLGKPKFSFSDLWIMTLPFKS 242
 Software: Microsoft Word Version 7.0A
 Seq ID No 10
 Length: 478
 Type: PRT
 Organism: Cucumis sativus
 US-10-434-991-10
 Query Match 94.0%; Score 2339; DB 15; Length 478;
 Best Local Similarity 91.9%; Pred. No. 3 98.21%; Mismatches 11; Indels 0; Gaps 0;
 Matches 449; Conservative 14; Mismatches 11; Indels 0; Gaps 0;
 Query 76 FTSRSRVVWVJDLAUSPFLDPTAKENLQDGTTMPSLSFTGNTIRTCAGDSETEHS 121
 File Reference: BBS34USA
 Database: 2 ASSPPLPKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 61
 Query 77 VLRRLPLSPLSRSDPTLFSSLSEMPVTKBDSLKEKKIDFNSDQMSDPYFL 184
 Software: Microsoft Word Version 7.0A
 Seq ID No 10
 Length: 478
 Type: PRT
 Organism: Cucumis sativus
 US-10-434-991-10
 Query 78 VLRRLPLSPLSRSDPTLFSSLSEMPVTKBDSLKEKKIDFNSDQMSDPYFL 181
 File Reference: BBS34USA
 Database: 2 ASSPPLPKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 61
 Query 85 LSGCPF--DSKLAAGPENPDMLVOLAPASLGKPKFSFSDLWIMTLPFKS 244
 Software: Microsoft Word Version 7.0A
 Seq ID No 10
 Length: 478
 Type: PRT
 Organism: Cucumis sativus
 US-10-434-991-10
 Query Match 94.0%; Score 2339; DB 15; Length 478;
 Best Local Similarity 91.9%; Pred. No. 3 98.21%; Mismatches 11; Indels 0; Gaps 0;
 Matches 449; Conservative 14; Mismatches 11; Indels 0; Gaps 0;
 Query 86 RKLXKAPFSSGTLDAKQGTRKAKCNVWAGNNAGAKLSETLKNGTAPC 304
 File Reference: BBS34USA
 Database: 2 ASSPPLPKPLPGGGPGLAPKIKDRIDPFQGDRPRSLKNTSTFRAMPPCP 61
 Query 87 RKLXKAPFSSGTLDAKQGTRKAKCNVWAGNNAGAKLSETLKNGTAPC 301
 Software: Microsoft Word Version 7.0A
 Seq ID No 10
 Length: 478
 Type: PRT
 Organism: Cucumis sativus
 US-10-434-991-10 Application US/10434991
 Sequence 6, Application US/10434991
 Publication No. US20040010822A1
 GENERAL INFORMATION:
 APPLICANT: McCollig, Brian
 TITLE OF INVENTION: HYDROPEROXIDE LYASES
 FILE REFERENCE: BBS34USA
 CURRENT APPLICATION NUMBER: US/10/434,991.
 CURRENT FILING DATE: 2003-05-09
 NUMBER OF SEQ ID NOS: 14
 SOFTWARE: Microsoft Word Version 7.0A
 SEQ ID NO 6
 LENGTH: 477
 TYPE: PRT
 ORGANISM: Glycine max
 US-10-434-991-10 Application US/10434991
 Sequence 6, Application US/10434991
 Publication No. US20040010822A1
 GENERAL INFORMATION:
 APPLICANT: McCollig, Brian
 TITLE OF INVENTION: HYDROPEROXIDE LYASES
 FILE REFERENCE: BBS34USA
 CURRENT APPLICATION NUMBER: US/10/434,991.
 CURRENT FILING DATE: 2003-05-09
 NUMBER OF SEQ ID NOS: 14
 SOFTWARE: Microsoft Word Version 7.0A
 SEQ ID NO 6
 LENGTH: 477
 TYPE: PRT
 ORGANISM: Glycine max
 US-10-434-991-10 Application US/10434991
 Sequence 6, Application US/10434991
 Publication No. US20040010822A1
 GENERAL INFORMATION:
 APPLICANT: Protagen Inc.

3	TPSSSPPELKLPIKPGYGFPPGPKDVKYDFYPPDFRSRITNSTVFRANPP	62	Db	224	RLUCGDPSRNLASKPCKVLUWFLPLATLGPKFNYEDPLTRTTPACLT	283
Db	10 SPSSNTOLPLKPIKGYSMPGFGAISDHNFTHQDKKFATRKHSTVTRNPP	69	Oy	241	NSGKLYKEPFSSGSFLDABKODIIDEKACNLFLAGNGKNUFLTUKNG	300
Oy	63 GPPSSPRVVVLILASRPTTAKPTVEKNTIDGTYPUSPGMIRCATPSTE	122	Db	284	NSGKLYKEPFSSGSFLDABKODIIDEKACNLFLAGNGKNUFLTUKNG	343
Db	70 GPPSSPRVVVLILASRPTTAKPTVEKNTIDGTYPUSPGMIRCATPSTE	129	Oy	301	TPAGDLRKAKBPTTURKGGUTTSALRKSLSKSYVABLRIPPPYPOGKED	360
Oy	123 HSVKRKRSPFLASHRPTPLRSSLSMVKLGESEKKADNSTSDMSDFV	182	Db	344	LSGRHHLASLSEVAVVADSGGVTPLALEMPYJYVTEVIEPAVPOYARL	403
Db	150 HALIKOFVFLVAKKOSKPSVFLNQGQESPEREOLSKANT-ADTPSPASNP	189	Oy	361	VQSHSRSKKGTTFCOPATDKPKOSEKVEDEBVEBEZCOKLYVSNR	420
Oy	183 RLSDGPVK - LACRCPENPMYKOLARASGLKSLISVEDVHTTLPFPV	240	Db	404	VSSSHDSASPVKGGMGTYOPPATDPRIEDAEVPPRFVG-EGRKQKLVMSNR	462
Db	189 RLFCDGDKSOTNLGSKPKVLTWIFLQDALKTLPQKINTYEDPLTRTTPACLT	248	Oy	421	ETVPTENQPGNDVLMGRIMWBSFVADPLGAPAWPKSLDT	478
Oy	244 KSGKRJYEFPTSSGSPSLBANKOGIDBREAGCNUPLAGNGAEGKNUFLTUKNG	300	Db	463	STERBSPASNQCPGNLWVCLPLBLPLVYDPEPSTTOAGGPPITNLTKS	520
Db	249 KSGKRJYEFPTSSGSPSLBANKOGIDBREAGCNUPLAGNGAEGKNUFLTUKNG	308	Oy			
301	TPAGDLRKAKBPTTURKGGUTTSALRKSLSKSYVABLRIPPPYPOGKED	360				
Db	-302 LSGERHHLASLSEVAVVADSGGVTPLALEMPYJYVTEVIEPAVPOYARL	368				
Oy	361 VQSHSRSKKGTTFCOPATDKPKOSEKVEDEBVEBEZCOKLYVSNR	420				
Db	363 VSSSHDSASPVKGGMGTYOPPATDPRIEDAEVPPRFVG-EGRKQKLVMSNR	427				
421	ETVPTENQPGNDVLMGRIMWBSFVADPLGAPAWPKSLDT	478				
Oy	427 ETVPTENQPGNDVLMGRIMWBSFVADPLGAPAWPKSLDT	478				
428 STERBSPASNQCPGNLWVCLPLBLPLVYDPEPSTTOAGGPPITNLTKS	520					
RESULT 7	US-10-124-599-203458					
GENERAL INFORMATION:	Publication No. US200400931072A1					
CURRENT APPLICATION NUMBER:	US-10-124-599					
APPLICANT:	Kovalic David K					
APPLICANT:	Zhou Yihua					
APPLICANT:	Cao Yongwei					
TITLE OF INVENTION:	Plants and Uses Thereof for Plant Improvement					
FILE REFERENCE:	US-10-124-599-203458					
CURRENT FILING DATE:	2003-04-28					
SEQ ID NO:	28584					
LENGTH:	522					
TYPE:	PTT					
FEATURE:	ORGANISM: Glycine max					
OTHER INFORMATION:	Clone ID: PAK-MRT3847_2574 sc.1.pep					
US-10-124-599-203458						
Query Match	62.7%	Score 1546.5;	DB 15;	Length 492;		
Best Local Similarity	59.2%	Prod. No. 1.1e-41;				
Matches	286;	Mimatches	88;	Indels	7;	Gaps 2;
Matches	281;	Conservative				
Matches	291;	Score 1560;	DB 15;	Length 522;		
Best Local Similarity	60.9%	Prod. No. 5.6e-13;				
Matches	276;	Mimatches	76;	Indels	107;	Gaps 3;
Matches	291;	Score 1560;	DB 15;	Length 522;		
Oy	3 TPSSSPPELKLPIKPGYGFPPGPKDVKYDFYPPDFRSRITNSTVFRANPP	56	Db	57 TPLAQSPMASSDOKPLKPIKGYSGPFGPGMSDRHYVNGRUKSFABRICKSTV	67	
Oy	45 SPSSNTOLPLKPIKGYSMPGFGAISDHNFTHQDKKFATRKHSTVTRNPP	104	Db	57 RAMPKPPFPESSDVVVLILASRPTTAKPTVEKNTIDGTYPUSPGMIRCATPSTE	116	
Oy	63 GPPSSPRVVVLILASRPTTAKPTVEKNTIDGTYPUSPGMIRCATPSTE	122	Oy	68 RTRNPPPEPSENPPVILUGYSPFLDPSKDKYDCTPMTSPGCRAP	127	
Db	105 GPPSSPRVVVLILASRPTTAKPTVEKNTIDGTYPUSPGMIRCATPSTE	124	Db	117 DPTSEBVKLPLKPIKGYSGPFGPGMSDRHYVNGRUKSFABRICKSTV	176	
Db	122 HSVKRKRSPFLASHRPTPLRSSLSMVKLGESEKKADNSTSDMSDFV	182	Oy	128 DPTPSSHLKQPYPLKPIKGYSGPFGPGMSDRHYVNGRUKSFABRICKSTV	187	
Oy	165 HALIKOFVFLVAKKOSKPSVFLNQGQESPEREOLSKANT-ADTPSPASNP	223	Db	177 SDPVWPLSDGTP-DSLIAEPMPLWYPLASTIGRPPSYVEDVHTTP	235	
Db	183 TRNPLFLSDSKDPEPTEIISDPSVWMLQDPLKPLTQPLTQPLTQPLT	247	Oy	189 TPLAQSPMASSDOKPLKPIKGYSGPFGPGMSDRHYVNGRUKSFABRICKSTV	247	
Oy	236 PPPYKSGKRYKAFFSSSSLBANKOGIDBREAGCNUPLAGNGKNUFLT	295	Db	248 PAWTWVSKSYKQSLISAGTALDARAKVETKGDACHEMLUFLMSNAGGIVNQPL	307	
Db	248 PAWTWVSKSYKQSLISAGTALDARAKVETKGDACHEMLUFLMSNAGGIVNQPL	307	Oy	296 LWKWTGAGEDLRLRKABPTVTRKGGUTTSALRKSLSKSYVABLRIPPPYQK	355	
Oy	308 IWKWLGLGAGLHKQLABRIRVVKQDGEJSRSLADOMLTKSVVETVIRPAVPOY	367				

QY 356 AKEDIVIGSHDSSPKKKKETIFGYQPAKPKLKDSEKFVGDPRFGSBERGLILKTVY 415
Db 368 ARBDLVVSHDAVEYTKGEMIFGYQPAKPKCPENADFVAFHFLGHSEKLRHVL 427
QY 416 WSERETVEPAENKOCPEKNWLMRINMVEFLRNDTPTEVADLPGAVPKVKSLT 475
Db 428 WSNGPOTEPSPDPDKQCPAKLNUVMCRLYLVEFLRLYDTPTDFPKVULPDVTKSLA 487
QY 476 RAT 478
Db 488 XAS 490

RESULT 9
US-10-422-114-68926 Application US/10425114
; Sequence 68926, Application US/10425114
; Publication No. US200400316892A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovacic, David K.
; APPLICANT: Screeen, Steven B.
; APPLICANT: Taback, Jack E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; Plant Improvement
; FILE REFERENCE: 38-21(5321)B
; CURRENT APPLICATION NUMBER: US/10/425_114
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO: 68926
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE: OTHER INFORMATION: Clone ID: 700568583_PLI.pep

Query Match 62.2%; Score 1545.5; DB 15; Length 492;
Best Local Similarity 59.2%; Pred. No. 1.1e-141; Matches 286; Conservative 88; Mismatches 102; Indels 7; Gaps 2;
QY 3 TPSSSSP----EPLKEPEPGYQPPPLPPIKDRDYFQGQDEPFSRSTYNTSP 56
Db 8 TPLAQPMMSPSKPKPQPSYGVPPGPMSPRUDYFNGDKEPKRKYKSTV 67
QY 57 RANPPGTTSSDRVVVLLDLSPIPLTAKTVERVNLILGTMISLSPFTNTRCATI 116
Db 68 RTNPPGPPISSNPVRAALDSSPILNSKDRGIVLQGTMSPSTPGTCAQ 127
QY 117 DPSPTEHSYKPLPSLTSRDRIPPLRSSSEMPSKPKADSKKKLADENSIDEM 176
Db 128 DTPTEPHAKLAKPPLKLNLSKHTTLPPLNNSPHSDQDILKLAKSKSASFSGSA 187
QY 177 SPDVVRLLSQTTC-DKAKAAGCPEPFLMIVQVQARASAGKAKPSRDJHII 235
Db 188 TPNFLPRUWDOKDPSERTLQDSDPSVQWTMLAQMLPLKLTQJLTFNVDLFRSIP 247
QY 236 PFPFWVSGRKLYEAPFSSGSPDABSKOIREKAHCMVYLAGTGNNGKVLQFPT 295
Db 248 PAMWVSSSYKQYEGSLTAGTALEBARNWIKRDEACHNVPFLPFLNQGLNQPTI 307
QY 296 LKWWTGTDLAKRKAVERVTPKGEGDLSALENSLGSVYEALEIEPPFPGK 355
Db 308 TKWLGAGLGLKOLAKBIRTVWKGEGVSLRADOMTIVSVVFLVIEPAVFOYK 367
QY 356 AKEDIVIGSHDSSPKKKKETIFGYQPAKPKLKDSEKFVGDPRFGSBERGLILKTVY 415
Db 368 ARBDLVVSHDAVEYTKGEMIFGYQPAKPKCPENADFVAFHFLGHSEKLRHVL 427
QY 476 RAT 478
Db 488 XAS 490

RESULT 10
US-10-434-991-4 Application US/10434991
; Sequence 4, Application US/10434991
; Publication No. US20040010822A1
; GENERAL INFORMATION:
; APPLICANT: McGonigle, Brian
; TITLE OF INVENTION: HYDROPEROXIDE LYASES
; FILE REFERENCE: B0154USNA
; CURRENT FILING DATE: 2003-05-09
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO: Microsoft Word Version 7.0h
; LENGTH: 478
; TYPE: PRT
; ORGANISM: Glycine max
; US-10-434-991-4

Query Match 62.1%; Score 1545.5; DB 15; Length 492;
Best Local Similarity 59.8%; Pred. No. 1.1e-141; Matches 284; Conservative 88; Mismatches 102; Indels 7; Gaps 1;
QY 5 SSSEPLPKPQGKGRGPGKIKDRYFQGDSDFPSRATKNSVFRANPPGP 64
Db 2 ASDSLKLPKPQGKGRGPGKIKDRYFQGDSDFPSRATKNSVFRANPPGP 61
QY 65 PISSSDPRVYALDSSPILDPAKTKENTDCTAMPALSPGNTMTCYDPESETHS 124
Db 62 PISSSDPRVYALDSSPILDPAKTKENTDCTAMPALSPGNTMTCYDPESETHS 121
QY 125 VSKRUTSPASHPERPLPSSSEMVKLQKUSEKCKADPNSISNSPDEVRL 184
Db 122 LKSKRUTSPASHPERPLPSSSEMVKLQKUSEKCKADPNSISNSPDEVRL 181
QY 185 LSQGP--DCKAAKGAGPMDLIVPLRASIGCPKSVEDVHTTPPPPPVSG 243
Db 182 LSQGP--DCKAAKGAGPMDLIVPLRASIGCPKSVEDVHTTPPPPPVSG 241
QY 244 YRMVARYTSSSFUDASQGIDBRKCNHFLMGGANGKQKLTLLKNGTNG 303
Db 242 YKQKUVEGSTAGTAAKRAVKGKDRACHNLLVPMSPNAGGLVNOFFLTLKNGG 301
QY 304 EDUHKKLAEVRYTVEGGLTFAEKQUSLKSVVTEARIEPPVPPGKGKEDIVIQ 363
Db 302 EGHHQKLAHRITRTWDGGVSRLADQNTLKSUVVTEARIEPPVPPQYKAREDLYVE 361
QY 364 SHDSSPKKKKETIFGYQPAKPKLFDKPSKESGVGRVGGRGKLUKVYNSHRETV 423
Db 362 SDAVYELKCGEMIFGYQPAKPKLFDKPSKESGVGRVGGRGKLUKVYNSHRETV 421
QY 424 EPAPAKOCPEKQVYGRGMVUVEFLYQYPAQVPGPKVKSLT 478
Db 422 EPAPAKOCPEKQVYGRGMVUVEFLYQYPAQVPGPKVKSLT 476

RESULT 11
US-10-422-991-155690 Application US/10424599
; Sequence 155690, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; Plant Improvement
; FILE REFERENCE: 38-21(5322)B

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RESULT 14
 US-10-424-599-169925 Application US/10424599
 ; Sequence 169925, Application US/10424599
 ; Publication No. US20040011072A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Ron, Thomas J
 ; APPLICANT: Kovacic, David K
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cho, Yongwei
 TITLE OR INVENTION: Plant and Uses Thereof for Plant Improvement
 FILE PREFERENCE: 38-2-115322J-B
 CURRENT APPLICATION NUMBER: US/10/10424-599
 CURRENT FILING DATE: 2003-12-04
 NUMBER OF SEQ ID NOS.: 28684
 SEQ ID NO: 169925
 LENGTH: 519
 SEQ ID NO: 169925
 LENGTH: 519
 TYPE: PCT
 ORGANISM: Glycine max
 ORGANISM: Glycine max
 PREFERENCE: Give me max
 PREFERENCE: Give me max
 OTHER INFORMATION: Clone ID: PAT_NEST847_124457C.1.pbp
 US-10-424-599-169925
 Query Match 55.3%; Score 1376.5; DB 15; Length 519;
 Best Local Similarity 54.5%; Prcd. No. 4.6e-125; Indels 9; Gaps 5;
 Matches 261; Conservative 85; Mismatches 124; Idents 9; Gaps 5;
 Qy 5 SSSSPS--LPSKPPGPGPPLPPIPDYDPFQDRDERSRSTKNTVPRAMP 61
 Db 44 SVTSPPSKLPSKPKPSGPSPVPGPKDQDYYKQGDPSKPSKRIQKOTVRTPM 103
 Qy 62 PEPPIPSSDV-WWDLASPPLETPAKVKRILUDGMPSPSGNRTCAFDSE 140
 Db 104 KPPDAPPPVWVWVWVWVWVWVWVWVWVWVWVWVWVWVWVWVWVWVW 163
 Qy 121 TEHSTKLU1BLSELASANDREIPEPSSLSEMVKEDLSKETKIDRNS1SDMSDY 180
 Db 164 PRHAKLQKMFELKUNSKRATVIFSPFMSKFLHAAALAAK-AEFDANDAANP 222
 Qy 181 VRLUSOCTP-DESKLAAEGPDMTFLVQPLAASIGKPKFSVFDUMLTIPFP 219
 Db 223 LERSLPNISPADKQDGLGKPKVOKVVKQGPKLPGPQF--LIESTRTRFLPSSL 279
 Qy 240 VESGRKLYAFSSGGPFLDEAKKGIDREKACHNLVTLAEGPMAYGKMKVLPFLKVN 299
 Db 280 IKKDQRLYDPFSSGLVDEABRGLITPDBACHNLLATCIFNSFGSMKLFPPNLKWI 319
 Qy 300 GTAGSDLAKLAKAEVTVKKG-LTFALKLKSILKVVTEARLEPVPPEPGKAKE 338
 Db 340 GRAGYKLUAKLAKAEVTVKKG-LTFALKLKSILKVVTEARLEPVPPEPGKAKE 339
 Qy 359 DIVOSHSSPKTKKGKETIYOPPATKPKDSEKVGDRFVGEBGEKLKVVWSN 418
 Db 400 DLISHSHAROFKOGEMIYOPPATKPKDSEKVGDRFVGEBGEKLKLVWSN 459
 Qy 419 EETVEPARKCOPCEKOUVGRGMVVEFLYDFTEADLPGPKVKSLTRAT 478
 Db 460 GPTTSPLKNGKOGDKOYVWVJASAVVTEFLYASPELQGSPGSVTTSLKAS 519
 Qy 475 PETESPPLGNQCGKDFLTWLSLUVFVYRPTVSPGSPGSVTTSLKAS 533
 Db 480 PETVEPAENKCCGEGNLVWLGIMMVSFLYDTFVEVADLPGPKVKSLTRAT 478
 Db 460 PETESPPLGNKOCAGKDFLTWLSLUVFVYRPTVSPGSPGSVTTSLKAS 518

RESULT 15
 US-10-732-923-2856 Application US/10732923
 ; Sequence 9856, Application US/10732923
 ; Publication No. US20050108791A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Edgerton, Michael D
 ; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
 ; FILE REFERENCE: 38-15(52796)C
 ; CURRENT APPLICATION NUMBER: US/10/732-923
 ; CURRENT FILING DATE: 2003-12-10
 ; PRIOR APPLICATION NUMBER: 10/310,154
 ; PRIOR FILING DATE: 2002-12-04
 ; NUMBER OF SEQ ID NOS.: 24149
 ; SEQ ID NO: 9856
 ; LENGTH: 520
 ; TYPE: PRT
 ; ORGANISM:
 ; FEATURE:
 ; NAME/KEY:
 ; LOCATION: (1)..(520)
 ; OTHER INFORMATION: unsure at all Xaa locations
 US-10-732-923-2856
 Query Match 55.1%; Score 1371; DB 17; Length 520;
 Best Local Similarity 54.6%; Prcd. No. 1.6e-124; Indels 10; Gaps 6;
 Matches 262; Conservative 83; Mismatches 125; Idents 10; Gaps 6;
 Qy 5 SASSE--IPIKPIPGYSGPPLKIDRQDYYQGDPSKFRSTKNTVPRAMP 61
 Db 44 SVTSPPSKLPSKPKPSGPSPVPGPKDQDYYKQGDPSKPSKRIQKOTVRTPM 103
 Qy 62 PEPPIPSSDV-WWDLASPPLETPAKVKRILUDGMPSPSGNRTCAFDSE 140
 Db 104 KPPDAPPPVW 163
 Qy 121 TEHSTKLU1BLSELASANDREIPEPSSLSEMVKEDLSKETKIDRNS1SDMSDY 180
 Db 164 PRHAKLQKMFELKUNSKRATVIFSPFMSKFLHAAALAAK-AEFDANDAANP 222
 Qy 181 VRLUSOCTP-DESKLAAEGPDMTFLVQPLAASIGKPKFSVFDUMLTIPFP 219
 Db 223 LERSLPNISPADKQDGLGKPKVOKVVKQGPKLPGPQF--LIESTRTRFLPSSL 279
 Qy 240 VESGRKLYAFSSGGPFLDEAKKGIDREKACHNLVTLAEGPMAYGKMKVLPFLKVN 299
 Db 280 IKKDQRLYDPFSSGLVDEABRGLITPDBACHNLLATCIFNSFGSMKLFPPNLKWI 319
 Qy 300 GTAGSDLAKLAKAEVTVKKG-LTFALKLKSILKVVTEARLEPVPPEPGKAKE 338
 Db 340 GRAGYKLUAKLAKAEVTVKKG-LTFALKLKSILKVVTEARLEPVPPEPGKAKE 339
 Qy 359 DIVOSHSSPKTKKGKETIYOPPATKPKDSEKVGDRFVGEBGEKLKVVWSN 418
 Db 400 DLISHSHAROFKOGEMIYOPPATKPKDSEKVGDRFVGEBGEKLKLVWSN 459
 Qy 419 EETVEPARKCOPCEKOUVGRGMVVEFLYDFTEADLPGPKVKSLTRAT 478
 Db 460 GPTTSPLKNGKOGDKOYVWJASAVVTEFLYASPELQGSPGSVTTSLKAS 519
 Qy 475 PETESPPLGNQCGKDFLTWLSLUVFVYRPTVSPGSPGSVTTSLKAS 533
 Db 480 PETVEPAENKCCGEGNLVWLGIMMVSFLYDTFVEVADLPGPKVKSLTRAT 478
 Db 460 PETESPPLGNKOCAGKDFLTWLSLUVFVYRPTVSPGSPGSVTTSLKAS 518

Search completed: October 5, 2005, 07:13:01
 Dl time : 170 secs

Db 400 LITISHSHAROFKOGEMIYOPPATKPKDSEKVGDRFVGEBGEKLKLVWSN 459
 Qy 301 TAGDILKAKAEVTVKKG-LTFALKLKSILKVVTEARLEPVPPEPGKAKE 359
 Db 340 RAGYKLUAKLAKAEVTVKKG-LTFALKLKSILKVVTEARLEPVPPEPGKAKE 399
 Qy 360 IVTISHSHAROFKOGEMIYOPPATKPKDSEKVGDRFVGEBGEKLKLVWSN 419